

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Takashi OOSHIMA et al.	)	Confirmation No.: Unassigned
	)	
Application No.: NEW	)	Group Art Unit: Unassigned
	)	
Filed: June 29, 2006	)	Examiner: Unassigned
	)	
For: NOVEL SEROTYPE STREPTOCOCCUS	)	
MUTANS AND UTILIZATION OF THE SAME	)	

Commissioner for Patents

U.S. Patent and Trademark Office

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 Alexandria, VA 22314

Sir:

**INFORMATION DISCLOSURE STATEMENT (IDS)**

☒ **Under 37 C.F.R. § 1.97(b)**: Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached PTO Form 1449. To the undersigned's knowledge, this IDS is being filed before the mailing date of a first Office Action on the merits, before the mailing date of a first Office Action on the merits after filing an RCE under § 1.114, or within three months of the application filing date.

☐ **Under 37 C.F.R. § 1.97(c)**: Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicant brings to the attention of the Examiner the documents listed on the attached PTO Form 1449. This IDS is being filed after the events recited in § 1.97(b) but, to the undersigned's knowledge, before the mailing date of a Final Office Action, a Notice of Allowance, or another action that closes prosecution in the application.

☐ The fee of \$180.00 set forth in § 1.17(p) is included herein; or

☐ Applicant submits that each item of information contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS.

☐ **Under 37 C.F.R. § 1.97(d)**: Pursuant to 37 C.F.R. §§ 1.56 and 1.97(d), Applicant brings to the attention of the Examiner the documents listed on the attached PTO Form 1449. This IDS is being filed after the events recited in § 1.97(c) but before payment of the issue fee.

☐ The fee of \$180.00 set forth in § 1.17(p) is included herein; and

☐ Applicant submits that each item of information contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS.

AP20 Rec'd PCI/PTO 29 JUN 2006

☒ A search report or other listing of documents from a counterpart, related, or other application dated March 22, 2005 and having documents cited thereon is attached for the Examiner's consideration. Any of these documents not previously cited, and any additional documents are listed on the PTO Form 1449.

☒ Applicant respectfully requests that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form. As for any document listed on the accompanying PTO-1449 that is in a language other than English, relevance can be understood from an enclosed English abstract or at least partial translation or from mention in the specification or in a search report for a corresponding application.

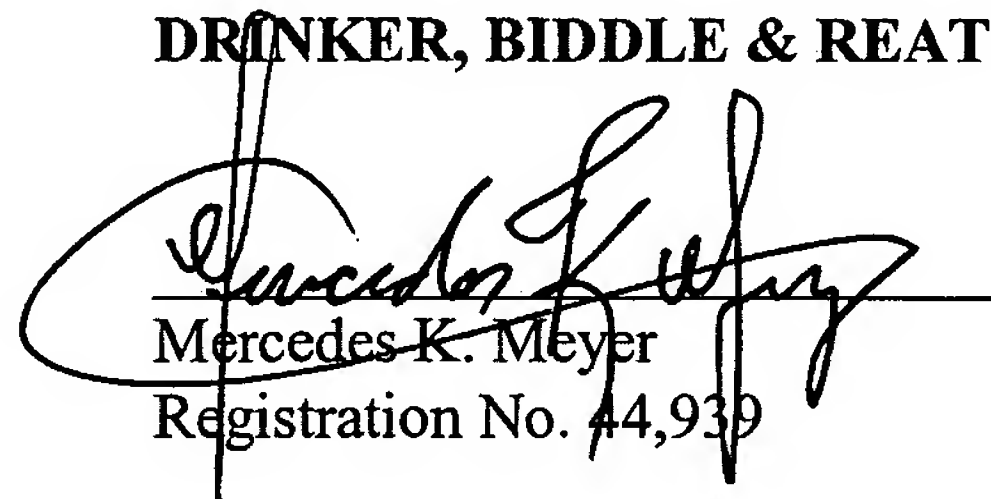
This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that any of the listed documents are material or constitute "prior art." If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should any of the documents be applied against the claims of the present application.

Except for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this Application, including fees due under 37 C.F.R. § 1.16 and 1.17 which may be required and including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0573. This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF TIME in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

**DRINKER, BIDDLE & REATH LLP**



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Dated: June 29, 2006

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<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)		Attorney Docket No.: 47236-0008-00-US		Serial No.: <b>107584990</b>			
<b>PTO Form 1449</b>		Applicants Takashi OOSHIMA et al.		Page 1 of 1			
		Filing Date: June 29, 2006		Group Art Unit: Unassigned			
<b>U.S. PATENT DOCUMENTS</b>							
*Examiner Initial		Document Number	Date	Name	Class	Sub Class	Filing Date
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Sub Class	<b>Translation</b> YES NO
		2003-185669	Jul. 3, 2003	JP			Abstract
<b>OTHER DOCUMENTS</b>							
(Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)							
		Taku FUJIWARA et al. "Biochemical and genetic characterization of serologically untypable <i>Streptococcus mutans</i> strains isolated from patients with bacteremia." <u>European Journal of Oral Sciences</u> . October 2001, Vol. 109, No. 5, pp. 330-334.					
		Yoshihisa YAMASHITA et al. "Genes Involved in Cell Wall Localization and Side Chain Formation of Rhamnose-Glucose Polysaccharide in <i>Streptococcus mutans</i> ." <u>Journal of Bacteriology</u> . November 1998, Vol. 180, No. 21, pp. 5803-5807.					
		Yukie SHIBATA et al. "Analysis of Loci Required for Determination of Serotype Antigenicity in <i>Streptococcus mutans</i> and Its Clinical Utilization." <u>Journal of Clinical Microbiology</u> . September 2003, Vol. 41, No. 9, pp. 4107-4112.					
		Kazuhiko NAKANO et al. "Demonstration of <i>Streptococcus mutans</i> with a Cell Wall Polysaccharide Specific to a New Serotype, <i>k</i> , in the Human Oral Cavity." <u>Journal of Clinical Microbiology</u> . January 2004, Vol. 42, No. 1, pp. 198-202.					
		Accession No. 2004556459 on MEDLINE NAKANO K. et al., "Development of a PCR method for rapid identification of new <i>Streptococcus mutans</i> serotype <i>k</i> strains." <u>Journal of Clinical Microbiology</u> . November 2004, Vol. 42, No. 11, pp. 4925-4930.					
		Yukie SHIBATA et al. "Expression and Characterization of Streptococcal <i>rgp</i> Genes Required for Rhamnan Synthesis in <i>Escherichia coli</i> ." <u>Infection and Immunity</u> . June 2002, Vol. 70, No. 6, pp. 2891-2898.					
Examiner				Date Considered			
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							